

GV-GBL12811 AI 12MP H.265 4.3x Zoom Super Low Lux WDR IR Bullet IP Camera



- Al deep learning: Al Perimeter Protection & Classification (Human, Vehicle)
- 1/1.7" progressive scan CMOS sensor
- Min. illumination at 0.006 lux
- Five streams from H.265, H.264 and MJPEG
- Up to 30 fps at 4000 x 3000
- Intelligent IR
- IR distance up to 70 m (230 ft)
- Day and Night function (with removable IR-cut filter)
- Two-way audio capable
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction
- Al analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata, Loitering Detection, Illegal Parking, Face Detection)
- Motion detection
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GBL12811 is a 12 MP outdoor bullet IP camera, equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GBL12811 adheres to IP67 and IK10 standards and can be powered through PoE.

Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (GV-VMS), it supports AI perimeter protection, real-time alert, playback, and more.

Deep Learning Function

Face Detection



Specifications

Al Perimeter Protection

(Region Intrusion, Line Crossing, Region Entrance, Region Exiting)



People Counting





Camera								
Image Sensor		1/1.7" progressive scan CMOS						
Picture Elemen	ts	4000 (H) x 3000 (V)						
	Color	0.006 Lux (F1.4, AGC ON)						
Minimum Illumination	IR On							
Shutter Speed	III OII		0 Lux Automatic, Manual (1/3 ~ 1/100000 sec)					
Shutter Speed White Balance			(1/3 1/100000 Sec)					
		Automatic, Manual						
Gain Control		Automatic, Manual						
S/N Ratio		50 dB						
WDR Pro		No						
Dynamic Range	:	75 dB						
Lens								
Megapixel		12 MP						
Day/Night		Yes (with removable	e IR-cut filter)					
Focal Length		2.8-12 mm						
Lens Type		Motorized						
Maximum Aper	rture	F/1.4						
Mount	Havier stel	Ø14						
FOV	Horizontal	96° ~ 46°						
FOV	Vertical Diagonal	70° ~ 35° 128°~ 58°						
	Focus							
Operation	Zoom	Auto / Manual 4.3x						
Operation	Iris	DC						
IR LED Quantity		4 IR LEDs						
Max. IR Distance		70 m (230 ft)						
DORI		Detect	Observe	Recognize	Identify			
	2.8-12 mm (W)	86 m (282.1 ft)	34 m (111.5 ft)	17 m (55.7 ft)	9 m (29.5 ft)			
Lens	2.8-12 mm (T)	190 m (623.3 ft)	76 m (249.3 ft)	38 m (124.6 ft)	19 m (62.3 ft)			
Operation	. ,	,	· ,	· ,	` '			
Video Compres	sion	H.265, H.265+, H.26	64, H.264+, MJPEG					
Video Streamir	ıg	Five streams						
	Main Stream	4000 x 3000 (Default), 3840 x 2160, 3200 x 1800, 2688 x 1520, 1920 x 1080						
	Sub Stream	1920 x 1080, 1280 x	1920 x 1080, 1280 x 960 (Default), 1280 x 720, 704 x 576,704 x 480, 640 x 360					
Video Resolution	Third Stream	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240						
	Fourth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240						
	Fifth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240						
Frame Rate		30 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)						
		25 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)						
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).						
Maximum Throughput		80 Mbps						
Maximum Streams * When the total bitrate is within the maximum throughput		10						
Video Analytics		Motion Detection, Video Exception Detection (Abnormal Color Detection, Scene Change, Video Blur), Object Abandoned/Missing Detection						
Smart Alarm		Audio Exception, Cable Disconnection, IP Address Conflict, SD Card Error, SD Card Full						
Image Setting		Brightness, Contrast, Hue, Saturation, WDR, Sharpness, Defog, 3D Noise Reduction, BLC, Antiflicker, White Balance, Shutter, Gain, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° – including Corridor format).						
Audio Compression		G.711						
Audio Support		Two-way audio (ext	ernal speaker required)				

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Deep Learning Function		Innut	1 Input dry contact NO / NC		
Par South Color	Digital I/O	Input	1 Input, dry contact, NO / NC 1 Relay Output (1A 30V DC / 0.3A 125V AC)		
Face Event: Face Detection Smart Event: - Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, H Map, Video Metadata - Lotiering Detection (lilegal Parking Detection) *Face events and smart events cannot be enabled at the same time. *A maximum of 2 smart detection functions are suggested at a time to ensure comprehensive detection results and the optimized performance by the camera. *Face event and Smart Event can only be enabled on at a time. People Gender, Age, Top / Bottom (Type, Color), Accessories (Hat, Bag, Face Mask, Glasses) Video Metadata Non-Motor Vehicle	Deep Learning Fu	·	Theray datput (IA 300 De / 0.3A 1230 Ac)		
Smart Event:	Deep Learning ra		Face Event: Face Detection		
Frace Event and Smart Event can only be enabled one at a time.	AI Analytics		 Smart Event: Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Hea Map, Video Metadata Loitering Detection, Illegal Parking Detection *Face events and smart events cannot be enabled at the same time. *A maximum of 2 smart detection functions are suggested at a time to ensure 		
Video Vehicle Type, Color, Brand, Model Network Interface 10/100 Ethernet Protocol 802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, 1M), PPPoE, QoS, RTCP, RTMP, RTSP, SMTP, SNMP, UDP, UPnP Mechanical Pan 0 ~ 360° Camera Angle Adjustment Pan 0 ~ 360° Rotate 0 ~ 360° Power Power DC jack, PoE Ethernet RJ-4S Ethernet RJ-4S Wes (Audio jack, 3.5 mm) External microphone required Yes (Audio jack, 3.5 mm) Connectors External microphone required Yes (Audio jack, 3.5 mm) Power Source Power devices with a microphone or speaker, choose either the built-in or external option or speaker, with a microphone or speaker, choose either the built-in or external option or speaker. Prof devices with a microphone or speaker, choose either the built-in or external option or speaker. Prof devices with a microphone or speaker, choose either the built-in or external option or speaker. General Video Output CVBS output (BNC connector x 1) Display of the speaker					
Non-Motor Vehicle Type, Color, Brand, Model	Vidoo	People	Gender, Age, Top / Bottom (Type, Color), Accessories (Hat, Bag, Face Mask, Glasses)		
Non-Motor Vehicle Network Interface 10/100 Ethernet 802.1x, DDNS, DHCP, FTP, HTTP, POST, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, 1 M), PPP0E, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SMMP, UDP, UPnP Mechanical Camera Angle Adjustment Pan 0 ~ 360° Titi 0 ~ 90° DC jack, P0E Ethernet RJ-45 Built-in microphone Yes External microphone Pyes (Audio jack, 3.5 mm) Built-in speaker No External microphone required Yes (Audio jack, 3.5 mm) Built-in microphone required Yes (Audio jack, 3.5 mm) * For devices with a microphone or speaker, choose either the built-in or external option * If equipped with an Audio In port, it only supports microphones with power supply. Video Output CVBS output (BNC connector x 1) Digital I/O 4-pin terminal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker, choose either the built-in or external option # For devices with an Audio In port, it only supports microphones with power supply. Video Output CVBS output (BNC connector x 1) Digital I/O 4-pin terminal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker, choose either the built-in or external option # For devices with an audio In port, it only supports microphones with power supply. Video Output CVBS output (BNC connector x 1) Digital I/O 4-pin terminal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker, choose either the built-in or external option # For devices with an Internal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker, choose either the built-in or external option # For devices with an Internal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker, choose either the built-in or external option # For devices with an Internal block pitch 3.5 mm (0.14 in) Local Storage microphone or speaker (v2.1 solar plant p		Vehicle	Type, Color, Brand, Model		
Interface	Wictadata	Non-Motor Vehicle	Туре		
Protocol 802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, IPV6, IPV6, IPV6, NTP, ONVIF (Profile G, S, 1 M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SMMP, UDP, UPnP Pan					
Mechanical Camera Angle Adjustment Rotate Pan O ~ 360° Rotate O ~ 360° Rotate O ~ 360° Rotate O ~ 360° Power D C Jack, PoE Ethernet RJ-45 Built-in microphone Yes External microphone required Yes (Audio Jack, 3.5 mm) Built-in speaker No External speaker required Yes (Audio Jack, 3.5 mm) For devices with a microphone or speaker, choose either the built-in or external optio Video Output CVBS output (BNC connector x 1) Digital I/O Local Storage General Operating Temperature Operating Opera	Interface		·		
Adjustment Pan	Protocol		802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP		
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Adjustment Rotate	Camera Angle				
Power DC jack, PoE Ethernet RJ-45 Audio Audio Audio External microphone required Yes (Audio jack, 3.5 mm) Built-in speaker No External speaker required Yes (Audio jack, 3.5 mm) External speaker required Yes (Audio jack, 3.5 mm) * For devices with a microphone or speaker, choose either the built-in or external optio * If equipped with an Audio In port, it only supports microphones with power supply. Video Output CVBS output (BNC connector x 1) Digital I/O Local Storage microSD card slot (SD / SDHC / SDXC), up to 256 GB General Operating Temperature -30 ~ 60°C (-22 ~ 140°F) Humidity 0 ~ 95% (no condensation) Power Source 12V DC, 1.5A / PoE (IEEE 802.3af) Max. Power Consumption 12 W Dimensions 272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5 in) Weight 1.12 kg (2.47 lb) Ingress Protection IP67 Vandal Resistance IK10 for metal casing Certification CE, FCC, RoHS, UKCA compliant Web Interface Installation Management Web-based configuration Maintenance Firmware upgrade through Web Browser or Utility Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish Coftware Applications GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Edge Recording		-	* **		
Ethernet RJ-45	•				
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External speaker required Yes (Audio Jack, 3.5 mm) * For devices with a microphone or speaker, choose either the built-in or external optio * If equipped with an Audio In port, it only supports microphones with power supply. Video Output CV8S output (BNC connector x 1) Digital I/O 4-pin terminal block pitch 3.5 mm (0.14 in) Local Storage microSD card slot (SD / SDHC / SDXC), up to 256 GB General Operating Temperature -30 ~ 60°C (-22 ~ 140°F) Humidity 0 ~ 95% (no condensation) Power Source 12V DC, 1.5A / PoE (IEEE 802.3af) Max. Power Consumption 12 W Dimensions 272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5 in) Weight 1.12 kg (2.47 lb) Ingress Protection IP67 Vandal Resistance IK10 for metal casing Certification CE, FCC, RoHS, UKCA compliant Web Interface Installation Management Web-based configuration Maintenance Firmware upgrade through Web Browser or Utility Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish Software Applications GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Recording Server (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.			·		
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Humidity 0 ~ 95% (no condensation) Power Source 12V DC, 1.5A / PoE (IEEE 802.3af) Max. Power Consumption 12 W Dimensions 272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5 in) Weight 1.12 kg (2.47 lb) Ingress Protection IP67 Vandal Resistance IK10 for metal casing Certification CE, FCC, RoHS, UKCA compliant Web Interface Installation Management Web-based configuration Maintenance Firmware upgrade through Web Browser or Utility Access from Web Browser Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish Software Applications GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.	General				
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Certification CE, FCC, RoHS, UKCA compliant Web Interface Installation Management Web-based configuration Maintenance Firmware upgrade through Web Browser or Utility Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish Software Applications GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.	Ingress Protection		IP67		
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Software Supported Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.	Software Applica	tions			
vvicii i atcii Oi iatcii)	Software Supported		GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.1.1 with Patch or later)		
Smart Device Access GV-Eye for iOS and Android (V3.2.0 or later)	Smart Device Ac	cess	·		

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September 16, 2025



Live Viewing	Web Browser (Edge 120.0.2210.121, Chrome 120.0.6099.200, Firefox 121.0, Safari 11),
Live viewing	Mobile App

Note:

- 1. Industrial-grade microSD cards are recommended to avoid event recording writing failure.
- 2. All specifications are subject to change without notice.

Packing List

2. Hex Key

3. Screw Kit

4. Drill Template Paster

5. CVBS & DC IN Cables

6. Download Guide

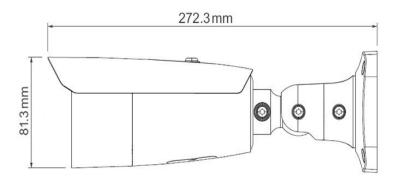
Accessories

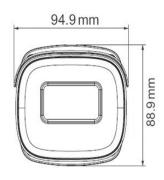
Model No.	Name		Details	
GV-Mount470 (must be used with Mount506)	Pole Mount Bracket		Dimensions: 163.3 x 54.5 x 215 mm (6.43 x 2.15 x 8.46 in) Weight: 1.10 kg (2.43 lb)	
GV-Mount314 (must be used with Mount506)	Corner Mount Bracket		Dimensions: 215 x 121.4 x 215 mm (8.46 x 4.78 x 8.46 in) Weight: 2.05 kg (4.52 lb)	
GV-Mount506	Junction Box		Dimensions: 139.3 x 171.6 x 50 mm (5.48 x 6.76 x 1.97 in) Weight: 0.51 kg (1.13 lb)	
GV-PA191	PoE Adapter	O Continue	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.	
GV-PA301	Gigabit PoE Adapter	No.	GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.	
GV-POE Switch		GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.		
Power Adapter		Contact our sales representatives for the countries and areas supported.		

GV-GBL12811



Dimensions





Mounting Type

